

## Cited Ref. 1

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-185515  
 (43)Date of publication of application : 28.06.2002

(51)Int.Cl. H04L 12/56  
 H04L 12/46  
 H04L 12/28  
 H04M 3/00

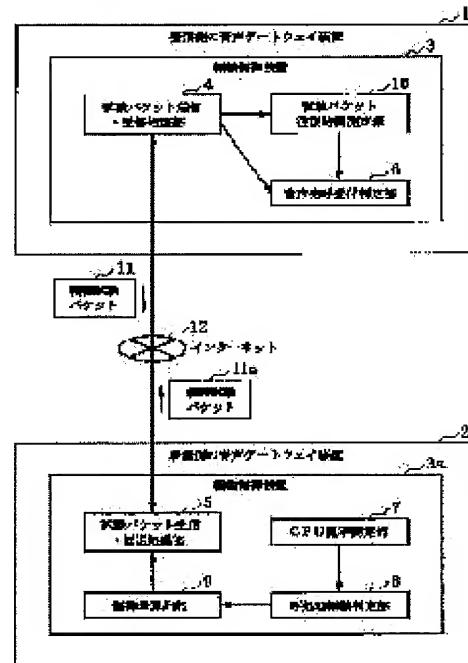
(21)Application number : 2000-383504 (71)Applicant : NIPPON TELEGR & TELEPH CORP  
 <NTT>  
 (22)Date of filing : 18.12.2000 (72)Inventor : NAKANISHI HIRONOBU  
 NOGAMI SHINYA

## (54) VOICE GATE WAY AND METHOD FOR CONTROLLING NETWORK CONGESTION

## (57)Abstract:

PROBLEM TO BE SOLVED: To suppress a call processing congestion and a packet congestion regarding voice data transmission in an IP network at a low cost.

SOLUTION: A method for controlling a network congestion comprises the steps of transferring a congestion testing packet 1 to a voice gate way 2 of an incoming side, by a testing packet transmitting/receiving processing unit 4 when a voice gate way 1 of an originating side receives an originating request of voice data, adding congestion information generated by a CPU efficiency measuring unit 7, an individual process congestion deciding unit 8, a control amount calculating unit 9 and the like to the packet by the gate way 2 of the incoming side, then returning the information to the gate way 1 of the originating side, and deciding to receive or refuse of the originating request of the received voice data, based on the information of the returned packet by a voice originating call reception deciding unit 6 by the gate way 1 of the originating side.



## Cited Ref.

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2003-008641  
(43)Date of publication of application : 10.01.2003

(51)Int.Cl. H04L 12/56  
H04L 29/14  
H04M 3/24  
H04M 3/26  
H04Q 1/20

(21)Application number : 2001-192902

(71)Applicant : NIPPON TELEGR & TELEPH CORP  
<NTT>

(22) Date of filing : 26.06.2001

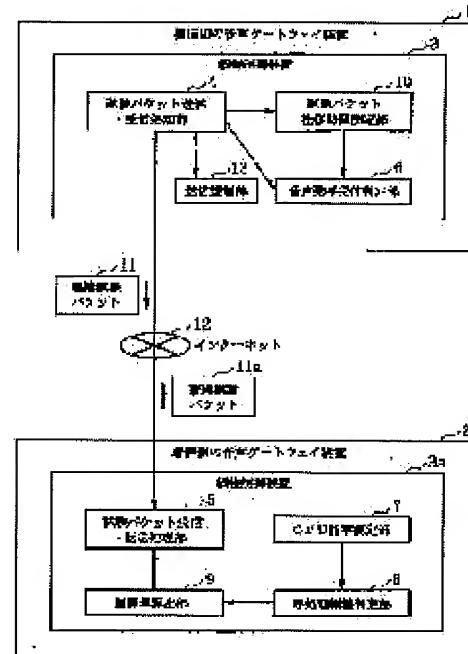
(72)Inventor : NOGAMI SHINYA  
NAKANISHI HIRONOBU

**(54) VOICE GATEWAY AND METHOD FOR CONTROLLING NETWORK CONGESTION, AND PROGRAM AND RECORDING MEDIUM**

(57) Abstract:

**PROBLEM TO BE SOLVED:** To avoid further congestion caused by a congestion testing packet in voice processing congestion regarding voice data transmission in an IP network.

**SOLUTION:** When a voice gateway 1 of an originating side receives an originating request of voice data, the voice gateway 1 transfers a congestion testing packet 11 to a voice gateway 2 of an incoming side, and the voice gateway 2 returns congestion information of its own device to the voice gateway 1 along with the received congestion testing packet 11. In the voice gateway 1 of the originating side, a voice call reception deciding section 6 decides to receive/refuse the originating request of voice data, and if the congestion testing packet having information of the presence of congestion is returned from the voice gateway of the same incoming side for a specified number of times continuously, a transmission control section 13 restricts transmission of the congestion testing packet to the voice gateway of the incoming side.



# Cited Ref. 3

## PATENT ABSTRACTS OF JAPAN

(11) Publication number : 2001-230862

(43) Date of publication of application : 24.08.2001

(51) Int.Cl.

H04M 3/00

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H04L 12/66

H04L 12/56

H04M 11/00

(21) Application number : 2000-039749

(71) Applicant : HITACHI LTD

(22) Date of filing : 14.02.2000

(72) Inventor : TANIGAWA KEIKO

TSUKADA KOJI

HOSHI TORU

YUMOTO KAZUMARO

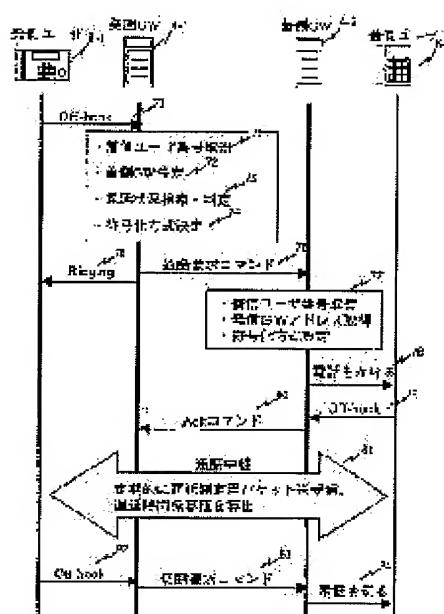
### (54) VOICE RELAY SYSTEM

#### (57) Abstract:

**PROBLEM TO BE SOLVED:** To provide a voice relay server able to house a large-scale of channels that reduces a delay time to the utmost and prevents deterioration in the quality of a reproduced voice in the case of relaying a speech of a telephone set connected to a public network or a speech between mobile phones connected to a mobile network.

**SOLUTION:** The voice relay server relaying a speech of a telephone set is installed at a connecting point between an IP network and a public network or a mobile network. When caller and called communication terminals are telephone sets, the voice relay server selects a PCM with a small processing time and a low processing load for its voice coding system, and selects a coding system used for the mobile network in order to reduce the number of times of code conversion in order to relay a speech with the mobile phone.

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# Cited Ref. 4

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-118648  
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 H04L 12/66

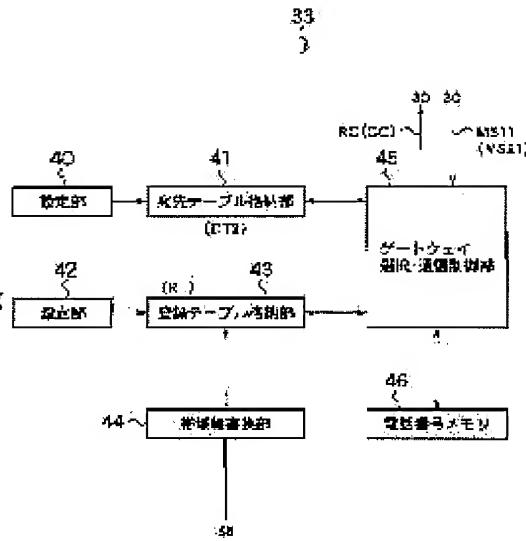
(21)Application number : 2000-305901 (71)Applicant : OKI ELECTRIC IND CO LTD  
 (22)Date of filing : 05.10.2000 (72)Inventor : OKUDA HIDEJI

### (54) INTER-NETWORK CONNECTION CONTROLLER

#### (57)Abstract:

PROBLEM TO BE SOLVED: To enhance reliability of a communication by enhancing a utility efficiency of resources.

SOLUTION: An inter-network connection controller comprises an incoming element network selecting means for selecting a network connector corresponding to an element network including an incoming side communication equipment based on address designation information supplied from an originating side communication equipment in a composite network having a plurality of element networks and constituted by mutually connecting element networks by an inter-network connector. The incoming element network selecting means in the controller further has a set managing unit, an address managing unit, a band using information managing unit and a selecting processor.



## Cited Ref. 5

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-141935  
(43)Date of publication of application : 17.05.2002

(51)Int.Cl.  
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H04L 12/24  
H04L 12/26  
H04M 3/00  
H04M 11/00

(21)Application number : 2000-331015 (71)Applicant : NIPPON TELEGR & TELEPH CORP  
<NTT>

(22)Date of filing : 30.10.2000 (72)Inventor : OSADA KAZUHIKO  
NISASE TAKEYOSHI

**(54) QUALITY CONTROL MANAGEMENT SYSTEM FOR COMMUNICATION NETWORK**

(57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a quality control management system for a communication network that can earlier recover a fault or congestion.

**SOLUTION:** A means to inform a quality management manager 201 about the occurrence of a fault or congestion is provided in packet switches 231, 232, 241–243, the quality management manager 201 is provided with a means that rejects acceptance of a new request communication when the quality management manager 201 receives the notice and a voice communication manager 111 informs about the new communication request from a user terminal and informs the voice communication manager 111 about it so as to attain rejection (call interruption) of the communication request on the occurrence of a fault or congestion in call control between the voice communication manager 111 and a voice packet processing unit 121.

